

Message Text

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FOR ROBERTS/BIB AND PAO/TEL AVIV

E.O. 11652: N/A
TAGS: PFOR, ETEL, GW, IS, XH
SUBJECT: JACOBS REPORT ON DISCUSSIONS OF SOVIET JAMMING
WITH ISRAELI OFFICIALS

REF: STATE 108184

TIME DID NOT PERMIT PREPARATION AND TRANSMISSION OF
FOLLOWING REPORT FROM TEL AVIV, BUT CONTENTS WERE DISCUSSED
WITH PAO MOSS BEFORE JACOB'S DEPARTURE.

1. GOI CONDUCTED EXTENSIVE IN-HOUSE REVIEW PRESENT STATUS
SOVIET JAMMING TO WHICH BIB REP (JACOBS) HAD BEEN INVITED.
KOL ISRAEL AND BIB FUNDED RADIO LIBERTY CONTINUE TO BE ONLY
WESTERN BROADCASTERS JAMMED BY SOVIETS.

2. DISCUSSIONS WERE HELD IN TEL AVIV AND JERUSALEM BETWEEN
MAY 25 AND JUNE 5 AND INCLUDED VISITS TO THE GOI HIGH POWER
BROADCASTING INSTALLATION AT YAVNE AND TO TECHNICAL RESEARCH
INSTALLATIONS IN THE HAIFA AREA. PRINCIPAL GOI PARTICI-
PANTS WERE: MAJ. GEN (RET.) M. GIDRON, DIRECTOR GENERAL,
MINISTRY OF COMMUNICATIONS; Y. NITZAN, ENGINEERING SERVICES,
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MINISTRY OF COMMUNICATIONS; V. GRAJEWSKI, DIRECTOR, EXTERNAL
SERVICES, KOL ISRAEL; Z. NEZER, MINISTRY OF FOREIGN AFFAIRS
(SOVIET EXPERT AND LIAISON FOR BROADCASTING TO USSR).

3. DISCUSSIONS COVERED WIDE RANGE OF TOPICS AND RELIED
HEAVILY ON RECENT DATA PROVIDED BY SOVIET EMIGREES.
TECHNICAL TOPICS COVERED INCLUDED EFFECTS OF SPEECH PROCESSING,

PROPAGATION, FREQUENCY MANIPULATION AND OTHER ATTEMPTED ANTI-JAMMING TECHNIQUES. NEZER DISCUSSED THE ANTI-HUMAN RIGHTS, VIOLATION OF THE FREE EXCHANGE OF INFORMATION, AND OTHER POLITICAL ASPECTS OF JAMMING. JACOBS ASSURED GOI OFFICIALS THAT USG INTENDS TO RAISE ISSUE OF CONTINUED SOVIET JAMMING AT UPCOMING BELGRADE REVIEW OF HELSINKI ACCORDS.

4. RESULTS OF DISCUSSIONS SUBSTANTIATE CONTINUING, IF NOT INCREASING, JAMMING EFFORT ON PART OF SOVIETS SINCE SIGNING HELSINKI ACCORDS. KOL ISRAEL BROADCASTS IN RUSSIAN, GEORGIAN, HEBREW AND YIDDISH CONTINUE TO BE JAMMED BY SOVIETS ALONG WITH SIXTEEN LANGUAGES BEAMED TO SOVIET UNION BY RADIO LIBERTY. SOVIETS ALSO CONTINUE TO JAM RUSSIAN LANGUAGE BROADCASTS FROM PRC. MASS OF DATA, PROVIDED MAINLY BY EMIGREES, SHOWS THAT JAMMING CONTINUES TO BE EXTREMELY HEAVY IN MAJOR POPULATION CENTERS WITH RECEPTION KOL ISRAEL AND RADIO LIBERTY BROADCASTS VERY DIFFICULT; BUT THAT JAMMING IS LESS EFFECTIVE IN OTHER AREAS AND WITH BETTER RECEPTION POSSIBLE. EVIDENCE STRONGLY INDICATES MOST CITIES WITH POPULATION LESS THAN 100,000 AND MANY WITH POPULATION AS HIGH AS 250,000 SUBJECTED TO LESS EFFECTIVE SKYWAVE JAMMING RATHER THAN MORE INTENSIVE GROUNDWAVE TYPE USED IN GREATER POPULATION CENTERS.

5. HIGHLIGHT OF DISCUSSIONS WAS FOLLOWING FIRST HAND REPORT ON JAMMING STATION PROVIDED BY EMIGREE WHO WORKED AT LOCAL RIGA GROUNDWAVE JAMMING CENTER.

BEGIN REPORT: CENTER CONSISTS OF A CONTROL AND MONITORING LIMITED OFFICIAL USE

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STATION CONNECTED TO A TRANSMITTING STATION A DOZEN OR SO MILES AWAY BY DIRECT TELEPHONE CIRCUITS. THE TRANSMITTING STATION CONSISTS OF FOURTEEN 5 KW TRANSMITTERS USED PRIMARILY FOR JAMMING LATVIAN AND RUSSIAN BROADCASTS FROM RADIO LIBERTY AND RUSSIAN, YIDDISH AND HEBREW BROADCASTS FROM KOL ISRAEL, AS WELL AS RUSSIAN BROADCASTS FROM THE PRC RELAYED BY ALBANIA. A FIFTEENTH TRANSMITTER OF 2 KW IS USED TO RELAY THE THIRD PROGRAM OF RADIO MOSCOW ON 9575 KHZ. EACH TRANSMITTER IS PERMANENTLY CONNECTED TO A WIDEBAND DIPOLE ANTENNA WITH HORIZONTAL, VERTICAL AND OBLIQUE POLARIZATION. ANY FREQUENCY BETWEEN 3 AND 24 MHZ CAN BE JAMMED.

A LIST OF FREQUENCIES TO BE JAMMED IS SUPPLIED SEASONALLY FROM MOSCOW. CHANGES ARE MADE IN ACCORDANCE WITH ORDERS RECEIVED FROM MOSCOW BY TELEX OR PHONE, WHICH ARE PRECEDED BY A SPECIAL ALARM BELL. THE TRANSMITTERS CHANGE FREQUENCIES IN A MATTER OF SECONDS.

THE JAMMING MODULATION IS FED TO THE TRANSMITTERS

FROM THE CONTROL AND MONITORING STATION, ONCE THEY ARE TUNED TO THE CORRECT FREQUENCY. THE BANDWIDTH AND DEPTH OF JAMMING MODULATION CAN BE VARIED, BUT IS USUALLY ABOUT 5 KHZ. THE JAMMING MODULATION IS ACCOMPANIED BY IDENTIFICATION IN MORSE CODE.

THE JAMMING CENTER IS MANNED 24 HOURS A DAY. WHEN OTHER WESTERN BROADCASTERS WERE ALSO JAMMED, THERE WAS A STAFF OF FOUR TECHNICIANS AT THE TRANSMITTING AND CONTROL AND MONITORING STATIONS AT ALL TIMES. NOW THERE ARE ONLY TWO TECHNICIANS AT EACH STATION.

SOURCE SAID THAT THIS WAS A TYPICAL GROUNDWAVE JAMMING STATION AND THAT MOST OTHERS IN SOVIET UNION WERE PROBABLY SIMILAR. HE HAD VISITED AN IDENTICAL CENTER AT DAUGAVPILS, 200 KM FROM RIGA. HE DID NOT KNOW OF ANY OTHER GROUNDWAVE JAMMING CENTERS IN LATVIA.

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SOURCE KNEW THAT JAMMING IN CITY OF RIGA WAS VERY INTENSE, BUT THAT KOL ISRAEL AND RADIO LIBERTY COULD BE HEARD LESS THAN 30 KM AWAY. HE ALSO POINTED OUT THAT OCCASIONALLY THERE WERE MORE FREQUENCIES TO JAM THAN COULD BE HANDLED BY THE FOURTEEN TRANSMITTERS. WHEN THIS HAPPENED, PRIORITY WAS GIVEN TO FREQUENCIES BELOW 16 MHZ, AND THE HIGHER ONES WOULD NOT BE JAMMED. END REPORT.

6. WITH AN APPARENT LIMITATION OF FIFTEEN TRANSMITTERS AT LOCAL GROUNDWAVE JAMMING STATIONS, GOI OFFICIALS SUGGEST CLOSER COORDINATION IN SCHEDULING KOL ISRAEL AND RADIO LIBERTY TRANSMITTERS SO THAT MAXIMUM NUMBER CAN BE BEAMED TO SELECTED AREAS OF SOVIET UNION IN ATTEMPT TO OVERTAX JAMMING CAPABILITY. JACOBS WILL FOLLOW UP WITH LEINWOLL PLAN TO COORDINATE TRIAL MAXIMUM BARRAGE EFFORT AND TO ASSESS RESULTS. BETTS

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